



Los Angeles
Department of
Water & Power



BUILDING A NEW LOS ANGELES

Solar Power in Los Angeles

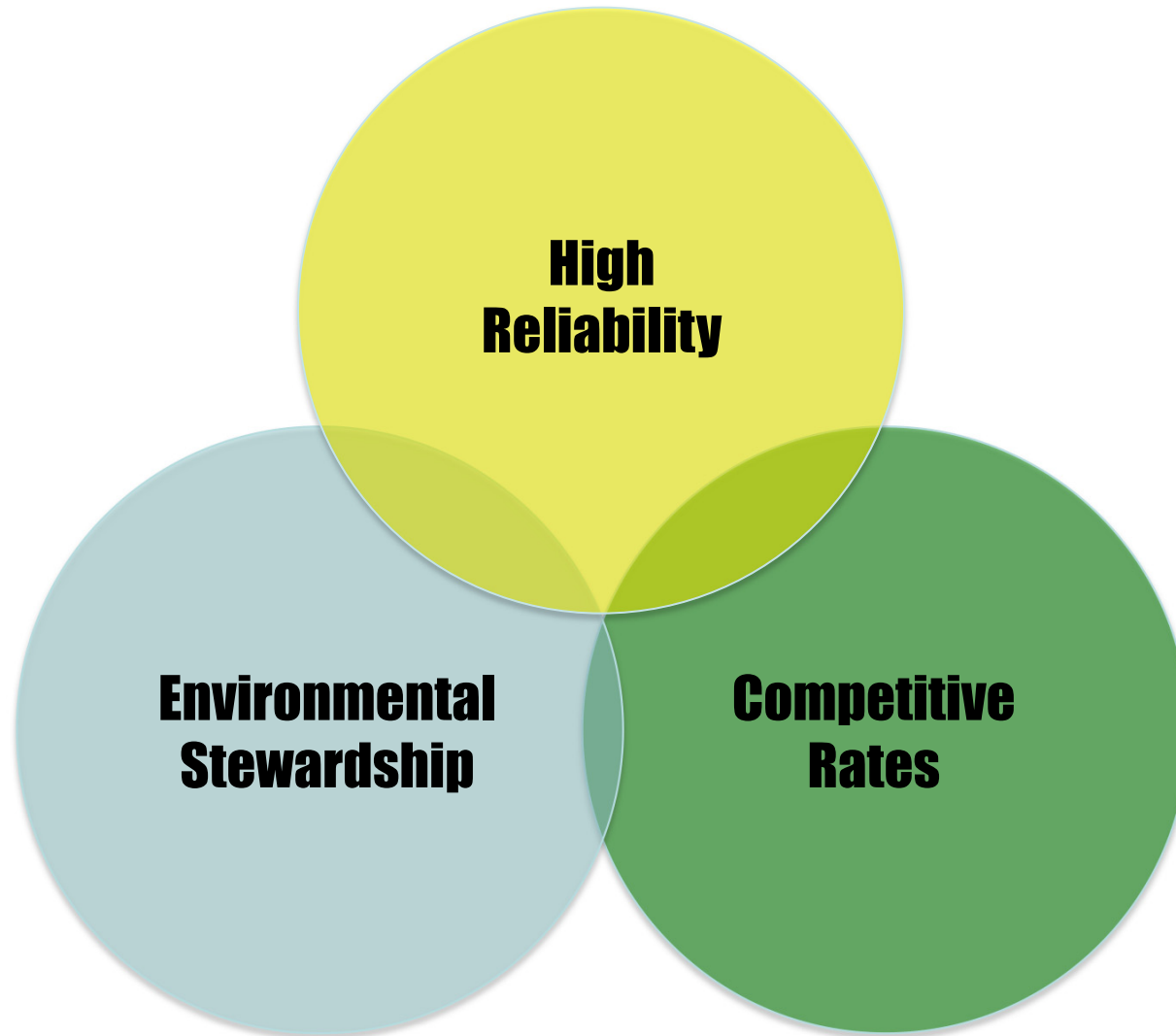
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Our Objectives





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Accomplishments in Renewables, Efficiency & CO2 Reductions

Renewables:

- From 3% in 2003
- Goal: 20% in 2010

Carbon Emissions:

- 22% lower than 1990 level

Energy Efficiency:

- Savings of 318 GWH in 2009 – a 19-fold increase since 2005
 - Equivalent to removing 53,000 households from the grid

Solar PV/Community Solar:

- LADWP doubled rebates in 2007
- LADWP customers installed 22 MW of solar on 2,600 rooftops since 1999
- 1,500 applications for 29 MW pending





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Components of LADWP Solar Program

Future of Solar in City of L.A.

- Solar Incentive (SB 1) for private partners
- In-Basin Solar PV on City property
- Feed-in Tariff under development

Large-Scale Solar Investment

- Utility-Scale Solar Farms
- Concentrated Solar PV, Solar Thermal

Economic Sustainability & System Reliability

- Transmission
- Field Resources
- Geographic Diversity
- Battery Technology



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Sources of Energy-2010

	Energy Mix % of Total	Energy Cost cents/KWh	Carbon Content Estimates for 2010
Coal	39	4.4	74%
Natural Gas	26	4.9	26%
Nuclear	11	5.7	
Large Hydro	6	2.3	
Renewables:			
Small Hydro	5	7.3	
Wind	8	9.6	
Solar	0.3	20.7	
Geothermal	1	9.0	
Biofuel	4	5.9	
Combined Average Cost		5.3	





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Path Forward: Questions & Concerns

Administration

- Permitting and application process
- Required staffing levels
- Meter reading issues

Economic Development

- Kinds of jobs and how many created
- Public-private partnerships
- Ensuring benefits to local community

System Reliability

- Terms and conditions of PPAs
- Smoothing fluctuations of renewable energy
- Surprises caused by new load patterns





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Path Forward: Questions & Concerns

Transmission & Distribution

- Upgrades or expansion required
- Reflecting investments in rates

Customer Cost

- Pricing and financial considerations
- Strategy for setting tariff
- Reaction of customers to higher rates

